

Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the above-identified application.

Listing of Claims

1. **(Currently amended)** A computer implemented method of customizing a product comprising:
 - providing a set of one or more customizable product classes;
 - receiving a customizable class rule in a natural language template;
 - receiving a request to designate a customizable product class from the set of customizable product classes as a customizable product instance;
 - receiving a request to associate a first component product from a set of component products with the customizable product instance; and
 - automatically determining whether to associate the first component product with the customizable product instance based on the customizable class rule.
2. **(Previously presented)** The computer implemented method of claim 1 further comprising:
 - determining not to associate the first component product with the customizable product instance if the customizable class rule limits association of the first component product with the customizable product instance.
3. **(Previously presented)** The computer implemented method of claim 1 further comprising:
 - determining to associate the first component product with the customizable product instance if the customizable class rule allows association of the first component product with the customizable product instance; and
 - associating the first component product with the customizable product instance.

4. (Previously presented) The computer implemented method of claim 3 further comprising:
determining whether to associate a second component product with the customizable
product instance upon the associating the first component product if the
customizable class rule requires association of the first component product with
the second component product; and
associating the second component product with the customizable product instance.
5. (Previously presented) The computer implemented method of claim 1 wherein the
providing the set of component products comprises providing a user interface for each
component product, wherein the user interface comprises a theme user interface, a control user
interface, and a group user interface.
6. (Canceled)
7. (Previously presented) The computer implemented method of claim 1 wherein two or
more component products from the set of component products are associated with the
customizable product instance.
8. (**Currently amended**) A machine-readable medium that provides instructions, which
when executed by a set of one or more processors, cause the set of processors to perform
operations of customizing a product comprising:
providing a set of one or more customizable product classes;
receiving a customizable class rule in a natural language template;
receiving a request to designate a customizable product class from the set of customizable
product classes as a customizable product instance;
receiving a request to associate a first component product from a set of component
products with the customizable product instance; and
automatically determining whether to associate the first component product with the
customizable product instance based on the customizable class rule.

9. (Previously presented) The machine-readable medium of claim 8, the operations further comprising:

determining not to associate the first component product with the customizable product instance if the customizable class rule limits association of the first component product with the customizable product instance.

10. (Previously presented) The machine-readable medium of claim 8, the operations further comprising:

determining to associate the first component product with the customizable product instance if the customizable class rule allows association of the first component product with the customizable product instance; and
associating the first component product with the customizable product instance.

11. (Previously presented) The machine-readable medium of claim 10, the operations further comprising:

determining whether to associate a second component product to the customizable product instance upon the associating the first component product if the customizable class rule requires associating the first component product with the second component product; and
associating the second component product with the customizable product instance.

12. (Previously presented) The machine-readable medium of claim 8 wherein the providing the set of component products comprises providing a user interface for each component product.

13. (Previously presented) The machine-readable medium of claim 12 wherein the user interface comprises a theme user interface, a control user interface, and a group user interface.

14. (Previously presented) The machine-readable medium of claim 8 wherein two or more component products from the set of component products are associated with the customizable product instance.

15. **(Currently amended)** A computer implemented method of customizing a product comprising:

receiving, in a natural language template, a set of customizable class rules that define at least one relationship among component products;

designating a customizable product class from a set of customizable product classes as a customizable product instance;

selecting a first component product from a set of component products to form a customizable product; and

automatically associating the first component product with the customizable product instance based on a customizable class rule, among the set of customizable class rules, that applies to the customizable product instance.

16. (Previously presented) The computer implemented method of claim 15, further comprising selecting a second component product to add to the customizable product, wherein the selecting is based on the first component product and at least one of the customizable class rules.

17. (Previously presented) The computer implemented method of claim 15, further comprising selecting two or more component products associated with the customizable product class.

18. (Previously presented) The computer implemented method of claim 15, further comprising automatically associating a second component product with the customizable product instance upon the selecting based on at least one of the customizable class rules.

19-23. (Canceled)

24. **(Currently amended)** A machine-readable medium that provides instructions, which when executed by a set of one or more processors, cause the set of processors to perform operations of customizing a product comprising:

receiving, in a natural language template, a set of customizable class rules that define at least one relationship among component products;

designating a customizable product class from a set of customizable product classes as a customizable product instance; and
selecting a first component product from a set of component products to form a customizable product; and
automatically associating the first component product with the customizable product instance based on a customizable class rule, among the set of customizable class rules, that applies to the customizable product instance.

25. (Previously presented) The machine-readable medium of claim 24, wherein the operations further comprise selecting from a set of alternative component products to add to the customizable product, wherein the selecting is based upon the first component product.

26. (Previously presented) The machine-readable medium of claim 24, wherein the operations further comprise selecting two or more component products associated with the customizable product class.

27. (Previously presented) The machine-readable medium of claim 24, wherein the operations further comprise automatically associating a second component product with the customizable product instance upon the selecting based on at least one of the customizable class rules.

28. (Canceled)

29. (Previously presented) The machine-readable medium of claim 27 wherein the customizable product rules comprise pricing information and allow for discount pricing.

30. (Canceled)

31. (Previously presented) The machine-readable medium of claim 27 wherein the customizable product rule comprises component product information to guide a consumer in a selection of the customizable product, and the component product is displayed in a user interface.

32. (Canceled)

33. **(Currently amended)** An apparatus to customize a product comprising:
a memory to store a set of one or more customizable product classes; and
a processor, coupled to the memory and configured to:
identify a set of component products,
receive a customizable class rule in a natural language template,
receive a request to designate a customizable product class from the set of customizable
product classes as a customizable product instance,
receive a request to associate a first component product from a set of component products
with the customizable product instance, and
automatically determine whether to associate the first component product with the
customizable product instance based on the customizable class rule.
34. (Previously presented) The apparatus of claim 33, wherein the processor is further
configured to determine not to associate the first component product with the customizable
product instance if the customizable class rule limits association of the first component product
with the customizable product instance.
35. (Previously presented) The apparatus of claim 33, wherein the processor is further
configured to:
determine to associate the first component product with the customizable product
instance if the customizable class rule allows association of the first component
product with the customizable product instance; and
associate the first component product with the customizable product instance.
36. (Previously presented) The apparatus of claim 35, wherein the processor is further
configured to:
determine whether to associate a second component product with the customizable
product instance upon the associating the first component product if the
customizable class rule requires association of the first component product with
the second component product; and
associate the second component product with the customizable product instance.

37. (Previously presented) The apparatus of claim 33, wherein the processor is further configured to provide a user interface for each component product, wherein the user interface comprises a theme user interface, a control user interface, and a group user interface.

38. (Canceled)

39. (Previously presented) The apparatus of claim 33, wherein two or more component products from the set of component products are associated with the customizable product instance.

40. (Canceled)

41. (Previously presented) The computer implemented method of claim 1, further comprising:

converting the customizable class rule from the natural language format into a low-level computer language.

42. (Previously presented) The computer implemented method of claim 1, wherein the customizable class rule comprises an expression relating to an attribute of a component product.

43. (Previously presented) The computer implemented method of claim 1, wherein the customizable class rule defines at least one relationship among the customizable product classes.

44. (Canceled)

45. (Previously presented) The machine-readable medium of claim 8, the operations further comprising:

converting the customizable class rule from the natural language format into a low-level computer language.

46. (Previously presented) The machine-readable medium of claim 8, wherein the customizable class rule comprises an expression relating to an attribute of a component product.

47. (Previously presented) The machine-readable medium of claim 8, wherein the customizable class rule defines at least one relationship among the customizable product classes.

48. (Previously presented) The computer implemented method of claim 15, further comprising:

converting the customizable class rules from a natural language format into a low-level computer language.

49. (Previously presented) The computer implemented method of claim 15, wherein each customizable class rule comprises an expression relating to an attribute of a component product.

50. (Previously presented) The computer implemented method of claim 24, further comprising:

converting the customizable class rules from a natural language format into a low-level computer language.

51. (Previously presented) The computer implemented method of claim 24, wherein each customizable class rule comprises an expression relating to an attribute of a component product.

52. (Previously presented) The apparatus of claim 33, wherein the processor is further configured to:

convert the customizable class rule from a natural language format into a low-level computer language.

53. (Previously presented) The apparatus of claim 33, wherein the customizable class rule comprises an expression relating to an attribute of a component product, and the customizable class rule defines at least one relationship among the customizable product classes.

54. (New) The method of claim, further comprising:

automatically providing user feedback in response to the request to associate the first component product with the customizable product instance.